

**Aviation Rulemaking Advisory Committee; Rotorcraft Subcommittee; JAR/FAR 27 and 29 Harmonization Working Group**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of establishment of JAR/FAR 27 and 29 Harmonization Working Group.

**SUMMARY:** Notice is given of the establishment of the JAR/FAR 27 and 29 Harmonization Working Group of the Rotorcraft Subcommittee. This notice informs the public of the activities of the Rotorcraft Subcommittee of the Aviation Rulemaking Advisory Committee.

**FOR FURTHER INFORMATION CONTACT:** Mr. William J. (Joe) Sullivan, Executive Director, Rotorcraft Subcommittee, Aircraft Certification Service (AIR-3), 800 Independence Avenue SW., Washington, DC 20591, Telephone: (202) 267-9554; FAX: (202) 267-5364.

**SUPPLEMENTARY INFORMATION:** The Federal Aviation Administration (FAA) established an Aviation Rulemaking Advisory Committee (56 FR 2190, January 22, 1991) which held its first meeting on May 23, 1991 (56 FR 20492, May 3, 1991). The Rotorcraft Subcommittee was established at that meeting to provide advice and recommendations to the Director, Aircraft Certification Service, FAA, regarding the airworthiness standards for normal and transport category rotorcraft in parts 27 and 29 of the Federal Aviation Regulations (14 CFR parts 27 and 29).

The FAA announced at the Joint Aviation Authorities (JAA)—Federal Aviation Administration (FAA) Harmonization Conference in Toronto, Ontario, Canada, (June 2-5, 1992) that it would consolidate within the Aviation Rulemaking Advisory Committee structure an ongoing objective to "harmonize" the Joint Aviation Requirements (JAR) and the Federal Aviation Regulations (FAR). Coincident with that announcement, the FAA assigned to the Rotorcraft Subcommittee those projects related to JAR/FAR 27 and 29 Harmonization which were then in the process of being coordinated between the JAA and the FAA. The Harmonization process included the intention to present the results of JAA/FAA coordination to the public in the form of either a Notice of Proposed Rulemaking or an advisory circular—an objective comparable to and compatible with that assigned to the Aviation Rulemaking Advisory Committee. The Rotorcraft Subcommittee, consequently, established the JAR/FAR 27 and 29 Harmonization Working Group.

Specifically, the Working Group's tasks are the following:

The JAR/FAR 27 and 29 Harmonization Working Group is charged with making recommendations to the Rotorcraft Subcommittee concerning the FAA disposition of the following subjects recently coordinated between the JAA and the FAA:

**Task 1—Performance:** Category A performance of normal category rotorcraft (FAR 27.1 and Appendix C).

**Task 2—Rotor Drive System:** Design assessment of the rotor drive systems which are consistent with the present state of the design art (FAR 29.547, 29.917, AC 29-2A).

**Task 3—Critical Parts:** Identification of the critical parts for consideration under design, production and maintenance, according to a critical parts plan to be prepared by the manufacture (FAR 27.602, 29.602).

**Task 4—Oil Pressure Indicator:** An oil pressure indicator to be provided for pressure-lubricated gear boxes to inform the crew in time that oil pressure is abnormal (FAR 27.1305, 29.1305).

**Task 5—Performance & Propulsion:** Miscellaneous performance and propulsion requirements for transport category rotorcraft (FAR 29.67, 29.923, 29.1587).

**Task 6—Flutter:** Update the flutter substantiation methodology and documentation requirements for transport category rotorcraft (FAR 29.629).

**Task 7—Lighting and Bonding:** Update lighting and bonding requirements for transport category rotorcraft (FAR 29.610, 29.1309).

**Task 8—Bird Strike:** Determine the need for bird strike protection for transport category rotorcraft (FAR 29.631).

**Task 9—Battery Endurance:** Reassess battery endurance requirements relative to different modes of operation and to varying environments for transport category rotorcraft (FAR 29.1351).

**Task 10—Fire Detection:** Reduce probability of false fire detector warning for transport category rotorcraft (AC 29-2A; ref. FAR 29.1203).

**Task 11—Vibrations:** Update advisory material of Appendix A of FAR 29 to provide guidance on basic vibration data to be provided for service (continuing airworthiness) use (AC 29-2A; ref. FAR 29 Appendix A).

**Task 12—Rotor Drive System and Fatigue Gear Substantiation:** Identify acceptable compliance methodology for gear teeth fatigue (AC 29-2A; ref. FAR 29.571, 29.901).

#### Reports

A. Recommend time line(s) for completion of each task, including rationale, for Subcommittee consideration at the meeting of the

subcommittee held following publication of this notice.

B. Give a detailed conceptual presentation on each task to the Subcommittee before proceeding with the work stated under items C and D, below. If tasks 1-9 require the development of more than one Notice of Proposed Rulemaking, identify what proposed amendments will be included in each notice.

C. Draft a Notice of Proposed Rulemaking for tasks 1-9 proposing new or revised requirements, a supporting economic analysis, and other required analysis, with any other collateral documents (such as Advisory Circulars) the Working Group determines to be needed.

D. Draft a change to Advisory Circular 29-2A for tasks 2 and 10-12 providing appropriate advisory material for each task.

E. Give a status report on each task at each meeting of the Subcommittee.

The JAR/FAR 27 and 29 Harmonization Working Group will be comprised of experts from those organizations having an interest in the tasks assigned. A Working Group member need not necessarily be a representative of one of the organizations of the parent Rotorcraft Subcommittee or of the full Aviation Rulemaking Advisory Committee. An individual who has expertise in the subject matter and wishes to become a member of the Working Group should write the person listed under the caption **FOR FURTHER INFORMATION CONTACT** expressing that desire, describing his or her interest in the task, and the expertise he or she would bring to the Working Group. The request will be reviewed with the Subcommittee and Working Group Chair, and the individual will be advised whether or not the request can be accommodated.

The Secretary of Transportation has determined that the information and use of the Aviation Rulemaking Advisory Committee and its subcommittees are necessary in the public interest in connection with the performance of duties of the FAA by law. Meetings of the full Committee and any subcommittees will be open to the public except as authorized by section 10(d) of the Federal Advisory Committee Act. Meetings of the JAR/FAR 27 and 29 Harmonization Working Group will not be open to the public except to the extent that individuals with an interest and expertise are selected to participate. No public announcement of Working Group meetings will be made.

Issued in Washington, DC, on December 4, 1992.

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Executive Director, Rotorcraft Subcommittee, Aviation Rulemaking Advisory Committee.

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